

| FORM PTO-1449<br>(REV. 1-84)  |    | U.S. DEPARTMENT OF COMMERCE<br>PATENT & TRADEMARK OFFICE   |   |   |   |      |                |   | CASE NO. 7-1                         |                     | SERIAL NO. 10/164,202 |                            |       |
|---|----|--|---|---|---|------|----------------|---|--------------------------------------|---------------------|-----------------------|----------------------------|-------|
| INFORMATION DISCLOSURE STATEMENT<br>(Use several sheets if necessary) |    |  |   |   |   |      |                |   | APPLICANT: J. M. Hergenrother et al. |                     |                       |                            |       |
|   |    |  |   |   |   |      |                |   | FILING DATE: June 6, 2002            |                     | GROUP: 2812           |                            |       |
| U.S. PATENT DOCUMENTS   |    |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
| EXAMINER INITIAL  |    | DOCUMENT NUMBER  |   |   |   | DATE | NAME           |   |                                      | CLASS               | SUB-CLASS             | FILING DATE IF APPROPRIATE |       |
|   | AA | 6  | 1 | 9 | 7 | 6    | 4              | 1 | 3/01                                 | Hergenrother et al. | 438                   | 268                        | ----- |
|   | AB |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AC |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AD |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AE |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AF |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AG |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AH |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AI |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AJ |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AK |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
| FOREIGN PATENT DOCUMENTS  |    |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
| EXAMINER INITIAL  |    | DOCUMENT NUMBER  |   |   |   | DATE | COUNTRY/AUTHOR |   |                                      | CLASS               | SUB-CLASS             | TRANSL'N YES NO            |       |
|   | AL |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AM |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AN |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AO |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AP |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
| OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)          |    |  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
| <i>Dh</i>   | AR | Ishiwara et al., Lateral solid phase epitaxy in selectively P-doped amorphous Si films, Appl. Phys. Lett., Vol. 49, No. 20, p. 1365 (Nov. 1986) (Abstract only)                      |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AS | Ishiwara et al., Selective Surface Doping Method of P Atoms in Lateral Solid Phase Epitaxy..., Jpn. J. Appl. Phys., Vol. 31, p. 1695 (June 1992)                                     |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AT | Dan et al., Lateral solid phase epitaxy of amorphous Si films by selective surface doping method of P atoms, Appl. Phys. Lett., Vol. 53, No. 26, p. 2626 (Dec. 1988)                 |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AU | Greene et al., Thin Single Crystal Silicon on Oxide by Lateral Solid Phase Epitaxy of Amorphous Silicon and Silicon Germanium, Mat. Res. Soc. Symp. Proc., Vol. 609, p. A9.31 (2000) |   |   |   |      |                |   |                                      |                     |                       |                            |       |
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|   | AX | Hergenrother et al., The Vertical Replacement-Gate...Gate Length, IEDM Tech. Dig., p. 75 (1999)  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AY | Oh et al., 50 nm Vertical Replacement-Gate (VRG) pMOSFETs, IEDM Tech. Dig., p. 65 (2000)   |   |   |   |      |                |   |                                      |                     |                       |                            |       |
|   | AZ | Hergenrother et al., 50 nm Vertical Replacement-Gate (VRG) nMOSFETs with ALD ... Dielectrics, IEDM Tech. Dig., p. 51 (2001)  |   |   |   |      |                |   |                                      |                     |                       |                            |       |
| <i>Dh</i>   | BA | Hergenrother et al., The Vertical Replacement-Gate MOSFET, Proc. 2nd European Workshop on the Ultimate Integration of Silicon (ULIS), p. 1 (2001)                                    |   |   |   |      |                |   |                                      |                     |                       |                            |       |
| EXAMINER:<br>SHEET 1 OF 1   |    | DATE CONSIDERED:<br><i>July - 2004</i>   |   |   |   |      |                |   |                                      |                     |                       |                            |       |